

CNA's Integrated Ship Database

Fourth Quarter CY 2012 Update

Gregory N. Suess • Lynette A. McClain



CNA Interactive Software

DIS-2014-U-006685-Final

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Photo credit

Both photos from: America's Navy. "Media: Photo Gallery," Last accessed Sep. 30, 2013 at <http://www.navy.mil/viewGallery.asp>

"090505-N-5319A-006 ALEXANDRIA, Va. (May 5, 2009) The littoral combat ship USS Freedom (LCS 1) pulls into port at Robinson Terminal in Old Town Alexandria, Va. The Freedom brings new capabilities to the fleet, including the ability to travel closer to shore than a conventional ship, providing a considerable advantage in the war on terror. (US Navy photo by Mass Communication Specialist 1st Class Brien Aho/Released)" (<http://www.navy.mil/management/photodb/photos/090505-N-5319A-006.jpg>)

"100116-N-8273J-025 MOBILE, Ala. (Jan. 16, 2010) The new littoral combat ship, USS Independence (LCS 2) is pier side during her commissioning ceremony. Independence is the second of two littoral combat ships designed to operate in shallow water environments to counter threats in coastal regions. (U.S. Navy photo by Mass Communications Specialist 1st Class Tiffini Jones Vanderwyst/Released)" (<http://www.navy.mil/management/photodb/photos/100116-N-8273J-025.jpg>)

Approved for distribution:

March 2014



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Director, Warfare Capabilities and Employment Team
Operations and Tactics Analysis

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REPORT DOCUMENTATION PAGE

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14. ABSTRACT CNA's Integrated Ship Database (ISDB) brings together data on naval ships from disparate online government sources such as the Naval Vessel Register, the Military Sealift Command's Ship Inventory, USN Chief of Information's Navy Fact File, the Naval History and Heritage Command's Dictionary of American Naval Fighting Ships, and the Maritime Administration's Naval Defense Reserve Fleet Inventory. This CNA Interactive Software product is our update with data as of December 31, 2012. It represents the 28th quarterly update of the ISDB since its inception in December 2005.						
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Contents

Introduction	1
Background.	1
Outline of this document	1
ISDB overview	3
Accessing the database	3
Organization of the ISDB file	7
The Document tab	7
The Directory tab	7
DataTableOriginal	7
DataTableCopy	13
The Pivot Tables	13
Changes in database content for this quarter	25
Routine update of source data	25
Removal of duplicate records for same ship hull	25
Inactive hyperlinks	25
Changes in the ship forces	26
Glossary	29
References	29
List of figures	35

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Introduction

Background

In this CNA Interactive Software document, we present the update of our Integrated Ship Database (ISDB) for the fourth quarter of calendar year 2012.

In this version of the ISDB, as in the previous ones, we bring together data on naval ships from several different online government sources into a single combined database tool. The ISDB makes ship data readily accessible for analysis and reporting. By continually maintaining and updating the database, we are better able to respond promptly to requests for information on ships from our sponsor¹, from other CNA research scientists and analysts, and from others in government as well.

Since our initial version in 2005 [1], we have published 27 quarterly updates [2–28]. They are all available online on the [Integrated Ship Database page](#) of CNA’s website, www.cna.org.

Outline of this document

We begin with a brief overview of the ISDB to orient you in a general way to the database. But if you are looking for details, please refer to the original 2005 user’s manual [1] and to the fourth quarter 2011 update [25]. In addition, the documentation of the second quarter 2012 update [27] discusses the changes we made due to the Military Sealift Command’s (MSC) organizational realignment of 2012 [29].

1. This work is being conducted as part of CNA’s Historic Fleet Employment Database Project, sponsored by the Deputy Chief of Naval Operations for Operations, Plans, and Strategy (N3/N5).

After the overview, we discuss our changes to the database because of modifications to the Naval Vessel Register (NVR), the MSC Ship Inventory, and the Maritime Administration's (MARAD) National Defense Reserve Fleet (NDRF) Inventory between October 1 and December 31, 2012.

Finally, we present ship counts and inventory summaries as of December 31, 2012.

ISDB overview

In this section, we present an overview of the Integrated Ship Database. We tell you where to find the database online and how to access it. Then we show how the Microsoft Excel database file is organized according to worksheet tabs for documentation, database navigation, data tables, and pivot tables for display and analysis.

Accessing the database

You can find all issues of the database on the Integrated Ship Database web page on CNA's web site (www.cna.org). The specific address for the main page for the database is at <http://www.cna.org/centers/operations-tactics/ship-database> [30]. Figure 1 illustrates the main page.²

Figure 2 is a view of the bottom portion of the main page. It contains a list of the database products for calendar years 2012 and 2013, a link to the Database Archive, and a list of our data source organizations and respective means of contact.

Figure 3 shows the top portion of the Database Archive web page. Here you will find all our database products between September 2005 and December 2011.

2. Figures 1-3 present these web pages as of the time that this document was prepared. We update the ISDB web pages periodically, so depending on when you access the website, you may find some differences in details.

Figure 1. Main web page for the Integrated Ship Database

The screenshot shows the main website for CNA's Center for Naval Analyses. At the top, there is a navigation bar with links for About Us, Our Research, Solution Centers (which is highlighted in grey), News & Information, and Careers. Below the navigation bar, there are two tabs: "CNA's Center for Naval Analyses" (highlighted in green) and "CNA's Institute for Public Research". The main content area features a large blue header banner with the text "CNA's Integrated Ship Database". To the left of the banner is a sidebar containing a list of research areas under "CNA's Center for Naval Analyses". The main content area includes a thumbnail image of three ships at sea, a brief description of the database, and a list of sources used to compile the information. Below this, there is a section about the database's purpose and a note from the development team.

CNA's Center for Naval Analyses

- › Advanced Technology & Systems Analysis
- › China Studies
- › Marine Corps Division
- › Operations & Tactics Analysis
 - › Integrated Ship Database
 - › Database Archive
 - › Cyber Research
 - › Selected Studies
- › Operations Evaluation Group
- › Resource Analysis
- › Strategic Studies

CNA's Integrated Ship Database

CNA's Integrated Ship Database contains selected information on particular ships throughout the fleet's history. The database has been compiled from authorized online U.S. Navy and U.S. government sources, including:

- › The Navy's Naval Vessel Register SHIPS website
- › The Military Sealift Command's Ship Inventory
- › The Naval History & Heritage Command's Dictionary of American Naval Fighting Ships (DANFS) and Ship History/Command Operations Reports
- › The Maritime Administration's National Defense Reserve Fleet (NDRF) Inventory Reports
- › The Navy Chief of Information's United States Navy Fact File

With the database, you can see the makeup of the Navy's Battleforce. You can find where ships are in their life cycle—authorized by Congress, under construction, in commission/in service, stricken from the Register, or disposed.

For additional detail on the layout of the database and for instructions on how to use it, please refer to our [overview](#) in the December 2011 update or our original 2005 [User's Manual](#).

CNA's Integrated Ship Database was developed and is maintained by senior research scientist Greg Suess, Ph.D. (703.824.2231) and associate advisor Lynette McClain (703.824.2855). If you have any questions, please contact us. We also welcome your thoughts and suggestions on improvements in this product.

Figure 2. Lower section of the main database page

2013

September 2013

- » [ISDB2013-09.xlsm](#)

June 2013

- » [ISDB2013-06.xlsm](#)

March 2013

- » [ISDB2013-03.xlsm](#)

2012

December 2012

- » [ISDB2012-12.xlsm](#)

September 2012

- » [ISDB2012-09.xls](#)

- » [Documentation](#) (CNA Interactive Software DIS-2013-U-005782-Final)

June 2012

- » [ISDB2012-06.xls](#) Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)

- » [ISDB2012-06.xls](#) Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)

- » [Documentation](#) (CNA Interactive Software DIS-2012-U-003585-Final)

March 2012

- » [ISDB2012-03.xls](#)

- » [ISDB2012-03.xls](#)

Database Archive

- » [Click here to view database updates from 2005 to 2011](#)

(This page was last updated on January 14, 2014)

Data Sources

- » [Naval Vessel Register](#)
NFSH_NNSY_NVR_CUSTODIAN@NAVY.MIL
- » [U.S. Navy Fact File](#)
Marie Tillery 202.433.0572
- » [National Defense Reserve Fleet Inventory](#)
Barbara Voulgaris
- » [Military Sealift Command Ship Inventory](#)
Kevin Mabon 202.685.5319
- » [Naval History and Heritage Command](#)
Dan Jones 202.433.6801

Figure 3. The Database Archive web page

Home > Solution Centers > CNA's Center for Naval Analyses > Operations & Tactics Analysis > Integrated Ship Database >

CNA's Integrated Ship Database

[Back to the Integrated Ship Database main page](#)

Database Archive

(This page was last updated on February 14, 2013)

2011

- › December 2011 [\[X\]](#) and cover memo [\[X\]](#)
ISDB2011-12.xlsx Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
- › ISDB2011-12.xls [\[X\]](#) Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
- › Documentation [\[X\]](#)
- › September 2011 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2011 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2011 [\[X\]](#) and cover memo [\[X\]](#)

2010

- › December 2010 [\[X\]](#) and cover memo [\[X\]](#)
- › September 2010 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2010 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2010 [\[X\]](#) and cover memo [\[X\]](#)

2009

- › December 2009 [\[X\]](#) and cover memo [\[X\]](#)
- › September 2009 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2009 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2009 [\[X\]](#) and cover memo [\[X\]](#)

2008

- › December 2008 [\[X\]](#) and cover memo [\[X\]](#)
- › September 2008 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2008 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2008 [\[X\]](#) and cover memo [\[X\]](#)

2007

- › December 2007 [\[X\]](#) and cover memo [\[X\]](#)
- › September 2007 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2007 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2007 [\[X\]](#) and cover memo [\[X\]](#)

2006

- › December 2006 [\[X\]](#) and cover memo [\[X\]](#)
- › September 2006 [\[X\]](#) and cover memo [\[X\]](#)
- › June 2006 [\[X\]](#) and cover memo [\[X\]](#)
- › March 2006 [\[X\]](#) and cover memo [\[X\]](#)

2005

- › September 2005 [\[X\]](#)

Organization of the ISDB file

The Document tab

Upon opening the database file, you will see the view in figure 4. The graphic of the document cover contains an associated hyperlink for immediate access to the documentation. Double-click the graphic and the pdf document will immediately open, if suitable pdf-read software is installed on your computer.

The Document tab is the first of ten tabs in the file. You can see the tabs at the bottom of the sheet.

The Directory tab

Figure 5 shows the next tab in the file—the Directory tab. The Directory helps you navigate to the various tabs in the database.

DataTableOriginal

The DataTableOriginal tab contains all the data. See figure 6 for a view of the top portion of the sheet. The rows in the sheet are the records of the database, one row for each ship hull unit. The columns are the database fields.

The records

We have colored the records in the database to depict the various Status categories:

- Authorized for construction 
- Under construction 
- Active 
- Naval Reserve Force, Active 
- Special, miscellaneous 
- In reserve 
- Leased or loaned 
- Stricken 

∞

Figure 4. The Document tab

ISDB_2012-12_Rev2.xlsxm

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
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50																
51																

The Document

The Directory

DataTableOriginal_Dec 12

DataTableCopy

USS Freedom (LCS 1)

USS Independence (LCS 2)

CNA Interactive Software
DIS-2014-U-00685-Final
March 2014

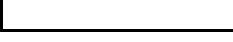
CNA ANALYSIS & SOLUTIONS

Figure 5. The Directory tab

	A	B	C	D	E	F
1						
2						
3	The Database	DataTableOriginal_Dec 12				
4						
5	Database Worksheet	DataTableCopy				
6						
7	Pivot Tables	The Basic Pivot Table				
8						
9		QuikLook Pivot Table on SECNAVINST 5030.8A Battleforce Ships				
10						
11		QuikLook Pivot Table on SECNAVINST 5030.8A Non-Battleforce Ships				
12						
13		QuikLook Pivot Table for NVR Ship Battle Forces				
14						
15		QuikLook Pivot Table for NVR Local Defense and Miscellaneous Support Forces				
16						
17		Ship Age PivotTable for Battleforce Ships				
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Figure 6. DataTableOriginal

A	B	C	D	E	F	G	H		
1	Return to The Directory	Today is	Thursday	March 13, 2014					
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status	Date Status Change	(Navy)
3	JOHN FINN			DDG 113	DDG Guided Missile Destroyer	20010	Authorized, for US Navy construction	6/15/2011	DDG 51 Destroyers
4	RALPH JOHNSON			DDG 114	DDG Guided Missile Destroyer	50125	Authorized, for US Navy construction	9/26/2011	DDG 51 Destroyers
5	RAFAEL PERALTA			DDG 115	DDG Guided Missile Destroyer	50126	Authorized, for US Navy construction	9/26/2011	DDG 51 Destroyers
6	THOMAS HUDNER			DDG 116	DDG Guided Missile Destroyer	50137	Authorized, for US Navy construction	2/28/2012	DDG 51 Destroyers
7	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction	2/14/2008	DDG 1000 Destroyers
8	LYNDON B. JOHNSON			DDG 1002	DDG Guided Missile Destroyer	41163	Authorized, for US Navy construction	3/15/2011	DDG 1000 Destroyers
9	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction	12/29/2010	LCS Littoral Combat
10	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction	12/29/2010	LCS Littoral Combat
11	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction	3/17/2011	LCS Littoral Combat
12	GABRIELLE GIFFORDS			LCS 10	LCS Littoral Combat Ship	20139	Authorized, for US Navy construction	3/16/2012	LCS Littoral Combat
13	TRIPOLI			LHA 7	LHA Amphibious Assault Ship (General Purpose)		Authorized, for US Navy construction	5/31/2012	LHA 6 Amphibious A
14	JOHN P. MURTHA			LPD 26	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction	6/23/2009	LPD 17 Amphibious I
15	LEWIS B. PULLER			MLP 3	MLP Mobile Landing Platform	41038	Authorized, for US Navy construction	2/26/2012	MLP 1 Mobile Landing
16	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20039	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
17	WASHINGTON			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
18	ILLINOIS			SSN 788	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction	12/23/2008	SSN 774 Attack Sub
19	COLORADO			SSN 789	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
20	INDIANA			SSN 793	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
21	SOUTH DAKOTA			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
22	DELAWARE			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction	12/22/2008	SSN 774 Attack Sub
23	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction	1/28/2010	JHSV 1 Joint High Sp
24	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction	10/29/2010	JHSV 1 Joint High Sp
25	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction	10/29/2010	JHSV 1 Joint High Sp
26	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction	6/30/2011	JHSV 1 Joint High Sp
27	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction	6/30/2011	JHSV 1 Joint High Sp
28	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction contract has not been awarded		LPD 17 Amphibious I
29	NO NAME			AGS 66	AGS Surveying Ship	10544	Under construction in US by Navy, unassigned to fleet	2/11/2011	AGS 60 Oceanograph
30	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet	11/14/2009	CVN 78 Aircraft Carr
31	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20211	Under construction in US by Navy, unassigned to fleet	2/11/2009	DDG 1000 Destroyers
32	CHOCTAW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigned to fleet	9/13/2010	JHSV 1 Joint High Sp
33	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet	12/17/2009	LCS Littoral Combat
34	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Under construction in US by Navy, unassigned to fleet	1/18/2012	LCS Littoral Combat
35	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet	12/8/2008	LHA 6 Amphibious A
36	SOMERSET	SOM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet	12/11/2009	LPD 17 Amphibious I
37	MONTFORT POINT			MLP 1	MLP Mobile Landing Platform	41036	Under construction in US by Navy, unassigned to fleet	1/13/2012	MLP 1 Mobile Landing
38	JOHN GLENN			MLP 2	MLP Mobile Landing Platform	41037	Under construction in US by Navy, unassigned to fleet	12/4/2012	MLP 1 Mobile Landing
39	MINNESOTA	MIN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet	3/19/2007	SSN 774 Attack Sub
40	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Under construction in US by Navy, unassigned to fleet	5/11/2012	SSN 774 Attack Sub
41	CONSTITUTION		USS	"Old Ironsides"	Other	01024	Active, in commission	10/1/1971	"Old Ironsides"
42	PUEBLO	PBL	USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission	5/13/1967	AGER 2 Environment
43	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21245	Active, in commission	9/20/1986	CG 47 Cruisers
44	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21246	Active, in commission	2/21/1987	CG 47 Cruisers
45	ANTIETAM	AMT	USS	CG 54	CG Guided Missile Cruiser	21287	Active, in commission	6/6/1987	CG 47 Cruisers
46	LEVITON GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21288	Active, in commission	9/26/1987	CG 47 Cruisers
47	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21289	Active, in commission	1/23/1988	CG 47 Cruisers
48	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	2128	Active, in commission	8/12/1988	CG 47 Cruisers
49	PHILIPPINE SEA	PSE	USS	CG 58	CG Guided Missile Cruiser	21223	Active, in commission	3/19/1989	CG 47 Cruisers
50	PRINCETON	PRN	USS	CG 59	CG Guided Missile Cruiser	21247	Active, in commission	2/19/1989	CG 47 Cruisers
51	NORMANDY	NDR, NMD	USS	CG 60	CG Guided Missile Cruiser	21449	Active, in commission	12/9/1989	CG 47 Cruisers
52	MONTEREY	MTY	USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission	6/6/1990	CG 47 Cruisers
53	CHANCELLORSVILLE	CHV	USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission	11/4/1993	CG 47 Cruisers

- Donated as museum,
memorial 
- Disposed 
- Lost, sunk 
- Military Sealift Command 
- MARAD/NDRF 
- Hull number assigned,
not built 
- Reclassed 
- No NVR status 
- Historical from PMARS³,
DANFS⁴, www.navy.mil 

The fields

The ISDB is made up of 32 fields. They include:

- Ship Name
- Abbrev (for ship abbreviation, usually a trigraph)
- Prefix
- Hull number (with link to [NVR web page](#))
- NVR Type
- UIC (for Unit Identification Code)
- Status
- Date Status Changed
- Class (with link to [Navy Fact File](#))
- NVR Force

3. PMARS: MARAD's Property Management and Archive Record System
 4. DANFS: Dictionary of American Naval Fighting Ships from the Naval History and Heritage Command (NHHC)

- 5030.8A Force
- 5030.8A Ship Category
- 5030.8A Ship Classification
- 5030.8A Ship Type
- [MSC Ship Link](#)
- MSC Type (with link to MSC Program page, e.g. to [Sealift \(PM5\) page](#))
- MARAD/NDRF Program-Type/Status (with link to [NDRF page](#))
- DANFS Entry (with link to [NHHC's DANFS ship page](#))
- Ship History Report (with link to [NHHC's Ship Histories/Command Operations Reports Index](#))
- Homeport (with link to [NVR Homeport page](#)) as of the end of CY 2012
- Previous, Other Names
- Award Date
- Keel Date
- Launch Date
- Delivery Date
- Commission Date
- Age of the ship⁵
- Decommission/Out Of Action (OOA) Date
- Inactivation Date
- Stricken Date
- Date last updated
- Additional Comments, References

5. For commissioned ships, the age is the time between its delivery date and the latest date the Pivot Table was refreshed. For historical ships, the age is based on the delivery date and the decommission/OOA date. If either of these dates is unavailable, we use the commission date and/or the inactivation date, respectively.

DataTableCopy

We have protected the DataTableOriginal page to prevent unintentional data changes and maintain configuration control. With page protection, however, Microsoft Excel inhibits some features.

By copying DataTableOriginal into the blank DataTableCopy, all features are available. With this table, you can modify the contents of DataTableOriginal to suit your needs, while preserving the data table in its original form on the DataTableOriginal sheet.

The Pivot Tables

We've used Excel Pivot Tables to display the contents of the database in several different summary forms. Pivot Tables enable you to examine the contents of the database at varying levels of specificity.

BasicPivotTable

As shown in figure 7, the Basic Pivot Table presents a view of the makeup of the entire ISDB. There, you can see the distribution of the 3,169 ship records by Ship Status Group.

To demonstrate the ease and flexibility of pivot tables in Excel, we present a sequence from the fully compressed Basic Pivot Table in figure 7 to a fully expanded view of the Active Status Group in figure 10.

First, we need to filter the table to present only the Active Status Group. Figure 8 shows the drop-down menu for column A with the Active Status Group selected.

Figure 9 then displays how to expand the compressed Active Status Group into the specific individual ship Status type, NVR Ship Type, Hull Number, and Ship Name. A right-click in the Status Group cell produces the drop-down menu with which the entire Status Group field can be expanded. Figure 10 is the top portion of the resulting expansion.

Figure 7. Basic Pivot Table

The screenshot shows an Excel spreadsheet with the following data:

Return to The Directory						
Count of Ship Name	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
1	+ Authorized					26
2	+ Under construction					12
3	+ Active					250
4	+ Naval Reserve Force, Active					7
5	+ In Reserve					14
6	+ Leased					7
7	+ Loan					2
8	+ Stricken					103
9	+ Disposed					1,970
10	+ Special, Miscellaneous (MSC Chartered and MARAD/NDRF Ready Reserve Force (RRF))					58
11	+ Military Sealift Command (MSC), Contract Operated					33
12	+ Military Sealift Command (MSC), Naval Fleet Auxiliary Force					44
13	+ Military Sealift Command (MSC), Special Mission Ships					16
14	+ Military Sealift Command (MSC), in service {Sealift Program}					1
15	+ Military Sealift Command (MSC), Not in NVR					14
16	+ Other NVR					48
17	+ Other, Not in NVR					564
18	Grand Total					3,169
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

Figure 8. Filtering on the Active Status Group using column A drop-down menu

The screenshot shows a Microsoft Excel window with a PivotTable. The PivotTable has columns labeled Status, NVR Type, Hull No. (NVR Link), Ship Name, and Total. The data includes various ship statuses like Authorized, Under construction, Active, etc., with counts ranging from 1 to 250.

A filter dialog box is open over the PivotTable, specifically for the "Status Group" column. The dialog lists several status categories. The "Active" option is selected, indicated by a checked checkbox. Other options like "Authorized" and "Under construction" are also listed but not selected.

Below the list of status groups, there are sections for "Label Filters" and "Value Filters". The "Search" field contains the text "(Select All)".

Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Authorized				26
Under construction				12
Active				250
Naval Reserve Force, Active				7
In Reserve				14
Leased				7
Loan				2
Stricken				103
Disposed				1,970
Special, Miscellaneous (MSC Chartered)				58
Military Sealift Command (MSC), Contract				33
Military Sealift Command (MSC), Naval F				44
Military Sealift Command (MSC), Special				16
Military Sealift Command (MSC), in servi				1
Military Sealift Command (MSC), Not in N				14
Other NVR				48
Other, Not in NVR				564
Grand Total				3,169

At the bottom of the dialog box are "OK" and "Cancel" buttons.

Figure 9. Expanding the entire Status Group field

The screenshot shows a Microsoft Excel spreadsheet with a PivotTable. The PivotTable has the following structure:

	B	C	D	E	F
Count of Ship Name	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
Active					250
Grand Total					250

A context menu is open over the cell containing "Status Group" (B4). The menu path "Subtotal 'Status Group'" -> "Expand/Collapse" -> "Expand Entire Field" is highlighted. Other options in the submenu include "Collapse", "Collapse Entire Field", "Collapse to 'Status Group'", "Expand to 'Status'", "Expand to 'NVR Type'", "Expand to 'Hull No.(NVR Link)"', and "Expand to 'Ship Name'".

Figure 10. Top portion of fully expanded Basic Pivot Table

	A	B	C	D	E	F	
1	Return to The Directory						
2							
3	Count of Ship Name						
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total	
5	Active	<input type="checkbox"/> Active, in commission <input type="checkbox"/> AGER Environmental Research Ship <input type="checkbox"/> CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion) <input type="checkbox"/> CG Guided Missile Cruiser <input type="checkbox"/> DDG Guided Missile Destroyer					
6						243	
7						1	
8						1	
9						11	
10						1	
11						1	
12						1	
13						1	
14						1	
15						1	
16						1	
17						1	
18						1	
19						1	
20						1	
21						22	
22						1	
23						1	
24						1	
25						1	
26						1	
27						1	
28						1	
29						1	
30						1	
31						1	
32						1	
33						1	
34						1	
35						1	
36						1	
37						1	
38						1	
39						1	
40						1	
41						1	
42						1	
43						1	
44						62	
45						1	
46						1	
47						1	
48						1	
49						1	

The QuikLook Pivot Tables

The QuikLook Pivot Tables present the compositions and counts of ships according to two different conventions that define Navy, MSC, and NDRF forces.

The first convention is specified in the Secretary of the Navy's Instruction 5030.8A on *General Guidance for the Classification of Naval Vessels and Battleforce Ship Counting* [31]. At the highest level, Instruction 5030.8A distinguishes between Battleforce and Non-Battleforce ships.

The second convention is that used by the Naval Vessel Register in its database field named "Force." This convention was formerly used for Navy budgeting, planning, and programming [32]. At the highest level, ships are assigned to either the Ship Battle Forces⁶ or to the Local Defense and Miscellaneous Support Forces.

QuikLook_5030.8A_Battleforce. Figure 11 shows the composition of the 5030.8A Battleforce by Ship Category, Ship Classification, and Ship Type as defined in this Instruction.

QuikLook_NVR_Ship_Battle_Force. The makeup of the NVR Ship Battle Force is by NVR Force, Status Group, Status, and Ship Type, as shown in figure 12.

Quiklook_5030.8A_Non-Battleforce. Figure 13 shows the organization of the Non-Battleforce ships according to the 5030.8A Instruction in this Pivot Table.

QuikLook_NVRLocDef&MiscSptForce. The composition of the Local Defense and Miscellaneous Support Forces of the NVR convention is displayed in figure 14.

6. Over the years, the term, "Battle Force," has been defined differently and has taken different forms (as in the previous paragraph, "Battleforce") in the various ship classification and counting schemes. To emphasize the existence of these differences and hopefully minimize ambiguity, we retain the forms used in the respective source documents cited here.

Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the *QuikLook_5030.8A Battleforce* Pivot Table

A	B	C	D	E	F	G
1	Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE			
2						
3	Count of Ship Name					
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	10	
6			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	109	
7				Destroyers/Guided Missile Destroyer	22	
8				Frigates/Guided Missile Frigate	62	
9				Littoral Combat Ship/Littoral Combat Ship	22	
10					3	
11					72	
12					54	
13					Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)	14
14					Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)	4
15					Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)	30
16					Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)	1
17					Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock	8
18					Landing Craft Carriers/Dock Landing Ship	9
19						12
20						34
21						Underway Replenishment/Fast Combat Support Ship
22						1
23						Underway Replenishment/Ammunition Ship
24						Underway Replenishment/Dry Cargo and Ammunition Ship
25						Underway Replenishment/Oiler
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37	Grand Total		Combatant Ship Total		288	
38						288
39						
40						
41						

Figure 12. Makeup of the Ship Battle Forces as displayed in the *QuikLook_NVR Ship Battle Force Pivot Table*

A	B	C	D	E	F	G
Return to The Directory		FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				
1						
2						
3	Count of Ship Name					
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR)	Ship Name
5	<input checked="" type="checkbox"/> Battle Force	<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Active, in commission			Total
6						227
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26		<input checked="" type="checkbox"/> Military Sealift Command (MSC), Naval Fleet Auxiliary Force	<input checked="" type="checkbox"/> Active, in service			
27						
28						
29						
30						
31						
32						
33						
34						
35		<input checked="" type="checkbox"/> Mobilization Cat. A	<input checked="" type="checkbox"/> Naval Reserve Force, Active	<input checked="" type="checkbox"/> Military Sealift Command (MSC), Naval Fleet Auxiliary Force {Combat Logistics Force}		
36						
37						
38		<input checked="" type="checkbox"/> Support Force	<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Military Sealift Command (MSC), in service {Sealift Program}		
39						
40						
41						
42						
43						
44						
45						
46						
47						
48	Grand Total					268
49						
50						
51						
52						

Figure 13. 5030.8A Non-Battleforce composition as displayed in the *QuikLook_5030.8A NonBattleForce* Pivot Table

A	B	C	D	E	F	G
1	Return to The Directory					
2	Count of Ship Name					
3	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name
4	Non-Battleforce					Total
5		Combatant Craft				13
6			Patrol Combatant			
7				Patrol Ships/Patrol Coastal		13
8		Auxiliary Ship				42
9			Auxiliary/Support Type Ship			
10				Other Auxiliaries/Cable Repairing Ship		1
11				Other Auxiliaries/Cargo Ship		11
12				Other Auxiliaries/Hospital Ship		2
13				Other Auxiliaries/Missile Range Instrumentation Ship		1
14				Other Auxiliaries/Oceanographic Research Ship		7
15				Other Auxiliaries/Vehicle Cargo Ship		19
16				Other Auxiliaries/Transport Oiler		1
17	Grand Total					55
18						
19						
20						
21						
22						
23						
24						
<input type="button" value="H"/> <input type="button" value="◀"/> <input type="button" value="▶"/> <input type="button" value="M"/> QuikLook_5030.8A Battleforce QuikLook_NVR Ship Battle Force QuikLook_5030.8A NonBattleforce <input type="button" value="Q"/> <input type="button" value="I"/> <input type="button" value="◀"/> <input type="button" value="▶"/>						

Figure 14. QuikLook Pivot Table for the Local Defense and Miscellaneous Support Forces of the NVR convention, *QuikLook_NVRLocDef&MiscSptForce*.

A	B	C	D	E	F	G
Count of Ship Name						
NVR Force	Status Group	Status	NVR Type	Hull No (NVR Link)	Ship Name	Total
1						
2						
3						
4						
5	▪ Auxiliary	▪ Active	▪ Active, in commission			13
6						13
7						
8		▪ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	▪ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)			1
9						
10		▪ Military Sealift Command (MSC), Special Mission Support	▪ Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)			8
11						
12		▪ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	▪ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)			2
13						
14		▪ Special, Miscellaneous	▪ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)			5
15	▪ Strategic Sealift					
16						4
17			▪ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program)			1
18						2
19						
20			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)			2
21						
22			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program)			2
23						
24			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)			46
25						
26			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program)			
27						6
28						
29			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces / Former MSC			2
30						
31			▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces / Former MSC			1
32						
33		▪ Military Sealift Command (MSC), Contract Operated	▪ Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)			21
34						
35			▪ Military Sealift Command (MSC), in service, contract operated (Sealift Program)			11
36						
37						3
38						
39		▪ Disposed	▪ Disposed of by Navy title transfer to the Maritime Administration			10
40						
41						10
42						
43	Grand Total					3
44						
45						114

ShipAge Pivot Table

The final pivot table in the data file is named *ShipAge Pivot Table*. You can see the opening view of the table in figure 15. This table presents the age-of-ship data for Battleforce ships, organized using the 5030.8A ship-type groups. The ages displayed upon opening the file are either: (1) the ages computed as of the date when the database was finalized, or (2) the ages as of the last “Refresh” of the Pivot Table.

To refresh the ship age calculation, you can right-click anywhere on the table and select “Refresh.” Or you can go to the Data tab in the menu bar and use the “Refresh All” button. Refreshing the age calculations will not account for decommissionings that may have occurred since the end of CY 2012.

The pivot table shows the number of ships within each group, the average age of ships in the group, the age of the oldest ship, and the age of the newest ship delivered.

Figure 15. View of the Ship-Age Pivot Table

	A	B	C	D	E	F	G	H	I	J	K
1	Return to The Directory										
2											
3	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No. (NVR Link)	Ship Name	Delivery Date	Count of Age	Average of Age	Max of Age	Min of Age
4	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)				10	22.9	38.8	4.7
5			Warship/Aircraft Carrier Total					10	22.9	38.8	4.7
6			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser				22	23.7	27.5	19.7
7				Destroyers/Guided Missile Destroyer				62	12.8	22.7	1.7
8				Frigates/Guided Missile Frigate				22	28.9	31.0	24.5
9				Littoral Combat Ship/Littoral Combat Ship				3	3.7	5.3	1.6
10			Warship/Surface Combatant Total					109	18.0	31.0	1.6
11			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)				54	21.1	32.9	1.7
12				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				14	23.1	29.3	16.4
13				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				4	31.1	32.2	30.0
14			Warship/Submarine Total					72	22.0	32.9	1.7
15			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				1	33.8	33.8	33.8
16				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	16.9	24.7	4.8
17				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				9	10.0	45.2	1.1
18				Landing Craft Carriers/Dock/Landing Ship				12	22.6	29.0	15.9
19			Warship/Amphibious Warfare Total					30	18.0	45.2	1.1
20			Other Combatant/Combat	Underway Replenishment/Dry Cargo and Ammunition Ship				14	4.5	7.6	1.2
21				Underway Replenishment/Fast Combat Support Ship				4	18.5	20.0	15.8
22				Underway Replenishment/Ammunition Ship				1	42.2	42.2	42.2
23				Underway Replenishment/Oiler				15	22.5	27.1	17.7
24			Other Combatant/Combat Logistics Total					34	15.2	42.2	1.2
25			Other Combatant/Fleet	Command/Command Ship				2	43.0	43.1	42.9
26				Material Support/Submarine Tender				2	34.6	34.9	34.3
27				Salvage Ships/Salvage Ships				4	27.9	28.5	27.3
28				Fleet Ocean Tugs/Fleet Ocean Tugs				4	33.1	33.6	32.5
29				Surveillance/Surveillance				5	19.7	22.4	13.3
30				Seabasing Support/Afloat Forward Staging Base (Interim)				1	42.6	42.6	42.6
31				Sea Base Connector/Joint High Speed Vessel				1	1.1	1.1	1.1
32			Other Combatant/Fleet Support Total					19	28.5	43.1	1.1
33			Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship				14	22.4	26.4	19.5
34			Other Combatant/Mine Warfare Type Ships Total					14	22.4	26.4	19.5
35			Combatant Ship Total					288	19.7	45.2	1.1
36			Grand Total					288	19.7	45.2	1.1
37											
38											
39											
40											
41											
42											
43											

Changes in database content for this quarter

Routine update of source data

We modified the database to account for the changes in our three major data sources through the quarter. As mentioned earlier, our sources include: (1) the NVR [33], (2) MSC's Ship Inventory [34], and (3) MARAD's NDRF Inventory [35].

We obtained the data from NVR by email [36], from MSC's Ship Inventory "Show changes" web site [37], and from MARAD's monthly reports on the NDRF Inventory [38–40].

Removal of duplicate records for same ship hull

In previous versions of the database, we included duplicate records for ships that had been reclassified or redesignated. For instance, four ballistic-missile submarines (*USS Ohio* (SSBN 726), *USS Michigan* (SSBN 727), *USS Florida* (SSBN 728), and *USS Georgia* (SSBN 729) were converted to guided-missile submarines and appropriately redesignated as SSGNs while retaining the same hull numbers.

Before, we followed the custom of the Naval Vessel Register which has duplicate pages for these submarines, one each for their designations as SSBNs and one for their SSGN designation. We merged these duplicate records into single records to remove the possibility of double counting. For instance, the hull number for *USS Ohio* now reads as "SSBN 726 / SSGN 726" and the ship type is now "SSBN Ballistic Missile Submarine (Nuclear-Powered) / SSGN Guided Missile Submarine (Nuclear-Powered)."

Inactive hyperlinks

In preparing this update, we found a number of hyperlinks that were no longer active. Among these were links to MSC pages for MARAD's

Ready Reserve Force ships. MSC no longer includes these ships in its Ship Inventory. Consequently, we removed these links.

In addition, we discovered that links to carrier and battleship pages in the Navy Fact File were inactive because the link addresses had been changed. We updated the inactive hyperlink addresses to the new active addresses.

Changes in the ship forces

SECNAVINST 5030.8A Battleforce increases to 288 ships

During the fourth quarter of 2012, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A increased from 287 to 288 ships [41]. Three ships were delivered to the Navy and MSC: USNS *Cesar Chavez* (T-AKE 14) on October 17; USNS *Spearhead* (T-JHSV 1) on December 5; and PCU *Arlington* (LPD 24) on December 7. And two ships were decommissioned: USS *Crommelin* (FFG 37) on October 31 and USS *Enterprise* (CVN 65) on December 1.

Figure 11 shows the composition of the Battleforce at the end of the quarter by the classification scheme in the 5030.8A Instruction.

We verified the count and the changes against the Navy Operations Center’s “OPNOTES/Worldwide Navy Distribution” and “CNO’s Current Ops Brief” products [41].

NVR Ship Battle Forces at 288 ships

The composition of the Ship Battle Forces according to NVR’s ship classification system as presented in ISDB’s *Quiklook_NVR Ship Battle Force* Pivot Table is shown in figure 12. The ships included here are the same as in the 5030.8A Battleforce. But the two ship classification schemes are different. A comparison of the two systems can be found in the documentation accompanying the December 2011 ISDB update [25].

SECNAVINST 5030.8A Non-Battleforce ship count at 55

During the third quarter the Navy’s Non-Battleforce fleet was unchanged. The makeup of the force from our *QuikLook_5030.8A_NonBattleForce* Pivot Table is shown in figure 13.

Our data are consistent with the Navy Ship Annual Supplemental Data Tables (SASDT) of June 2012 [42] and July 2013 [43].

NVR Local Defense and Miscellaneous Support Forces at 114 ships

According to the NVR's classification scheme, ships not in the Ship Battle Forces may fall into its Local Defense and Miscellaneous Support Forces organization. The ships in these forces include the ships in the 5030.8A Non-Battleforce. They also include ships in the Ready Reserve Force, reported in MARAD's National Defense Reserve Fleet Inventory reports. Figure 14 shows the makeup of these forces from our *Quiklook_NVRLocDef&MiscSptForce* Pivot Table.

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Glossary

DANFS	Dictionary of American Naval Fighting Ships
ISDB	Integrated Ship Database
MARAD	Maritime Administration
MSC	Military Sealift Command
NAVSEA	Naval Sea Systems Command
NAVSHIPSO	NAVSEA Shipbuilding Support Office
NDRF	National Defense Reserve Fleet
NHHC	Naval History and Heritage Command
NVR	Naval Vessel Register
OOA	Out of action
PCU	Pre-Commissioning Unit
PMARS	Property Management and Archive Record System
RRF	Ready Reserve Force
SASDT	Ship Annual Supplemental Data Table Ship and Aircraft Supplemental Data Table
SECNAVINST	Secretary of the Navy Instruction
UIC	Unit Identification Code
USNS	United States Naval Ship
USS	United States Ship

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List of figures

Figure 1. Main web page for the Integrated Ship Database	4
Figure 2. Lower section of the main database page	5
Figure 3. The Database Archive web page	6
Figure 4. The Document tab	8
Figure 5. The Directory tab	9
Figure 6. DataTableOriginal.	10
Figure 7. Basic Pivot Table.	14
Figure 8. Filtering on the Active Status Group using column A drop-down menu	15
Figure 9. Expanding the entire Status Group field.	16
Figure 10. Top portion of fully expanded Basic Pivot Table	17
Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the QuikLook_5030.8A Battleforce Pivot Table	19
Figure 12. Makeup of the Ship Battle Forces as displayed in the QuikLook_NVR Ship Battle Force Pivot Table	20
Figure 13. 5030.8A Non-Battleforce composition as displayed in the QuikLook_5030.8A NonBattleForce Pivot Table	21

Figure 14. QuikLook Pivot Table for the Local Defense and Miscellaneous Support Forces of the NVR convention, QuikLook_	22
Figure 15. View of the Ship-Age Pivot Table	24

DIS-2014-U-006685-Final-2



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